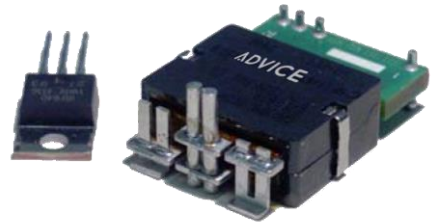


AD58AC Series

Features:

- Off-Line Converter Apps: Forward w/ Active or Resonant Reset | PSFB | LLC | Asymmetrical Half-Bridge
- Power Rating 100-300W Typical w/ Forward Topology & 150-600W Utilizing PSFB Topology
- Frequency Range: 100 Khz to 1 Mhz
- Low Loss | Hi-Perm | Self Shielding RoHS Compliant

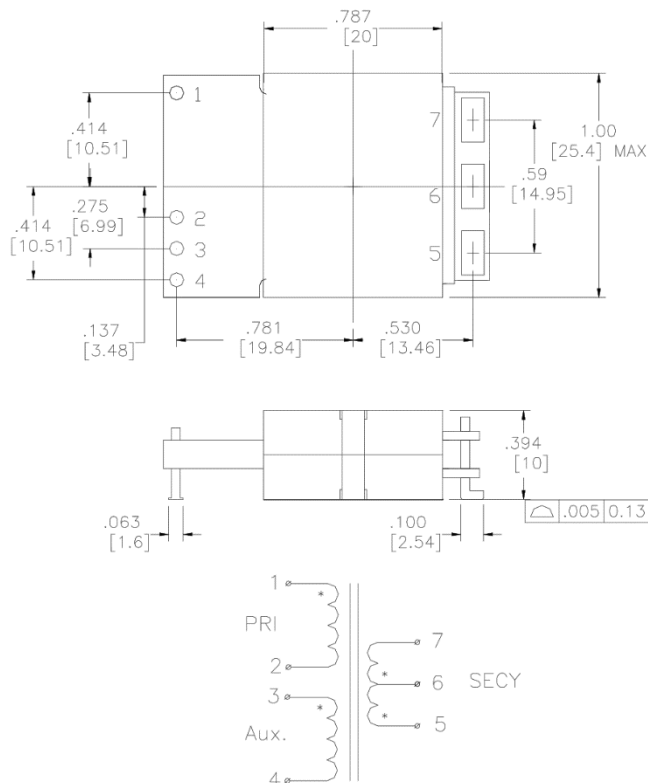


Specifications

| Part # | Pri T | SecT | Pri Induct. (μH min) | Pri DCR ($\text{m}\Omega$) | Sec DCR ($\text{m}\Omega$) | Leakage L(μH) | Max Height (mm) |
|-------------|-------|-------|----------------------------------|------------------------------|------------------------------|----------------------------|-----------------|
| AD580AC-520 | 28 | 1T | 2600 | 160 | 0.25 | 0.60 | 10.2 |
| AD580AC-521 | 28 | 1T 1T | 2600 | 160 | 0.50 0.50 | 0.60 | 10.2 |
| AD580AC-522 | 22 | 1T | 1600 | 140 | 0.25 | 0.48 | 10.2 |
| AD580AC-523 | 22 | 1T 1T | 1600 | 140 | 0.50 0.50 | 0.48 | 10.2 |
| AD580AC-524 | 20 | 1T | 1360 | 120 | 0.25 | 0.43 | 10.2 |
| AD580AC-525 | 20 | 1T 1T | 1360 | 120 | 0.50 0.50 | 0.43 | 10.2 |
| AD580AC-526 | 18 | 1T | 1100 | 100 | 0.25 | 0.40 | 10.2 |

Notes: Operating Temp. -50oC to +130oC | Primary to Secondary Isolation 3000 Vrms

* Product specifications are subject to change without further notice



Mechanical Configuration: SMT | Thru-Hole | Pad-To-Pad | Embedded Multi-Layer in PCB. Contact factory for available options and technical support.

- Thermal Impedance: ~20oC/W Natural Convection | ~8oC/W Heat Sink 1 Side (Contact Factory)
- Reference Design for Telecom Application ¼ "Brick". Forward Converter Topology Active Clamp operating at 68% duty at 300 Khz supplies 200W – 3.3dcV nom @33A
- Reference Design for OEM -- Application IBA to distribute +12V from PFC Off line Input Source. PSFB Bridge Converter Topology operating at 90% duty at 250 Khz supplies 360W (+12V@30A) with Vin ranging from 200 Vdc min to 420 Vdc max. Transformer loss was ~4W @85oC pcb heat sink -- <125oC Hot Spot.